

IN THE CLAIMS:

1. (Original) A system to control the configuration of an implantable medical device (IMD), comprising:
 - a web-enabled information network;
 - a storage device capable of receiving information from the information network to receive patient-specific data; and
 - a processing circuit coupled to the storage device to select components to be integrated in the IMD based on the patient-specific data.
2. (currently amended) The system of Claim 1, and further including software components loaded into the storage device, the software components being selected by the processing circuit as one or more of the components selected for use in the configuration of the IMD.
3. (Original) The system of Claim 2, wherein the software means is selected from the group consisting of software and/or firmware-implemented digital signal processing processes, filters, and signal differentiation processes.
4. (currently amended) The system of Claim 3, wherein the signal differentiation processes include analyzing means to for analyzing cardiac waveforms, wherein said waveforms are selected from the group consisting of poly-morphic ventricular tachycardia, poly-morphic ventricular fibrillation, mono-morphic ventricular tachycardia, mono-morphic ventricular fibrillation, atrial flutter, atrial tachyarrhythmia, atrial fibrillation, premature atrial contractions, premature ventricular contractions, sinus tachycardia, left bundle-branch block, right bundle branch block, antegrade p-waves, and retrograde p-waves.
5. (currently amended) The system of Claim 1, wherein the processing circuit includes parameter selection means to for selecting predetermined parameters to be downloaded into the IMD.

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6. (Original) The system of Claim 5, wherein the predetermined parameters are selected from the group consisting of a patient identifier, a device type, model number, a serial number, a name of an implanting physician, a name of a sales representative, a name of an implanting institution, a date of implant, a customized patient alarm, and a customized message in a selected language.
7. (Original) The system of Claim 1, and further including a manufacturing system coupled to receive information indicative of the selected components, wherein the received information is used during manufacture of the IMD.
8. (Original) The system of Claim 7, and further including a testing system coupled to receive information indicative of the selected components, wherein the received information is used in testing a manufactured IMD.
9. (Original) The system of Claim 8, wherein the received information includes signals generated from the patient-specific data applied to inputs of the IMD during the testing of the manufactured IMD.
10. (Original) The system of Claim 9, wherein the processing circuit includes means for monitoring status of an IMD being manufactured and tested, and further including means for transferring the status via the web-enabled information network to a remote system.
11. (Original) The system of Claim 1, wherein the processing circuit includes means for selecting hardware components to be used during manufacture of the IMD based on the patient-specific data.
12. (Original) The system of Claim 1, and further including means for monitoring inventory levels of the selected components and for ordering

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additional ones of the selected components when the inventory levels are within a predetermined range.

13. (Original) The system of Claim 1, and further including means for receiving an order to manufacture the IMD via the web-enabled information network.

14. (Original) The system of Claim 13, and further including means for automatically shipping a manufactured IMD in response to the order.

15. (Original) The system of Claim 1, wherein the processing circuit is integrated within a programmer, and further comprising a telemetry system capable of downloading the ones of the selected components to the IMD.

16. (Original) The system of Claim 1, and further including a programmer coupled to the storage device to download ones of the selected components to the IMD.

17. (Original) A method of utilizing an information network coupled to an inventory management system to manufacture an implantable medical device (IMD), comprising the steps of:

- a.) transferring a customized order for the IMD from a remote site to the inventory management system via the information network; and
- b.) utilizing the inventory management system to select a user-specific configuration of the IMD based on the customized order, the user-specific configuration to be used to manufacture the IMD.

18. (Original) The method of Claim 17, wherein selecting the configuration includes selecting the operating parameters of the IMD.

19. (Original) The method of Claim 17, wherein selecting the configuration includes selecting hardware components to be used in the manufacture of the IMD.

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20. (Original) The method of Claim 19, and further including the steps of:
determining whether the selected hardware components are available in
inventory; and
automatically ordering components that are not available in inventory.
21. (Original) The method of Claim 17, wherein selecting the configuration
includes selecting one or more software algorithms to be used to control
operations of the IMD.
22. (Original) The method of Claim 21, wherein the customized order includes
physiological data, and further including the step of modifying a selected software
algorithm based on the physiological data.
23. (Original) The method of Claim 21, wherein selecting one or more
software algorithms includes selecting from software and/or firmware-
implemented digital signal processing algorithms, filters, and signal differentiation
algorithms.
24. (Original) The method of Claim 17, wherein the customized order includes
predetermined parameters selected from the group consisting of a patient
identifier, a device type, model number, a serial number, a name of an implanting
physician, a name of a sales representative, a name of an implanting institution,
a date of implant, a customized patient alarm, and a customized message in a
selected language.
25. (Original) The method of Claim 17, and further including the step of using
the selected configuration to manufacture the IMD.
26. (Original) The method of Claim 25, wherein the inventory management
system is coupled to a manufacturing system, and further including the step of

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transferring the selected configuration to the manufacturing system for use in manufacturing the IMD.

27. (Original) The method of Claim 25, and further including the step of using the selected configuration to test a manufactured IMD.

28. (Original) The method of Claim 27, wherein the inventory management system is coupled to a test system, and further including the step of transferring the selected configuration to the test system for use in testing a manufactured IMD.

29. (Original) The method of Claim 27, wherein the customized order includes physiological data obtained from a patient, and further including the step of providing the physiological data to interfaces of the manufactured IMD to test the manufactured IMD.

30. (Original) The method of Claim 25, and further including the step of monitoring status of an IMD while the IMD is being manufactured.

31. (Original) The method of Claim 30, and further including transferring the status to the remote site.

32. (Original) The method of Claim 25, and further including automatically shipping a manufactured IMD in response to the customized order.